

Pre-AP Geometry 5.5 Assignment

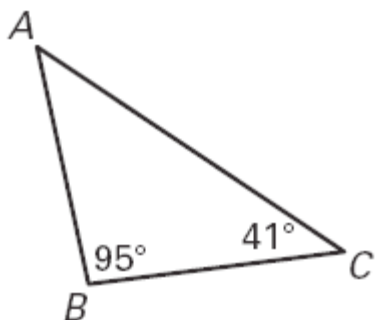
Inequalities in one triangle

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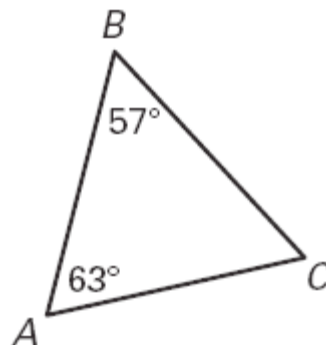
1. What is your name?

Name the shortest and longest sides of the triangle.

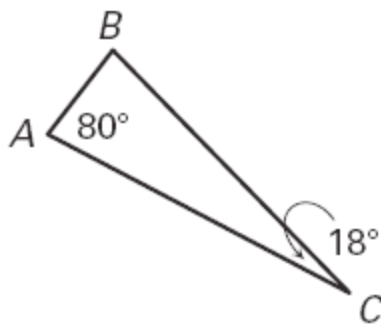
2.



3.

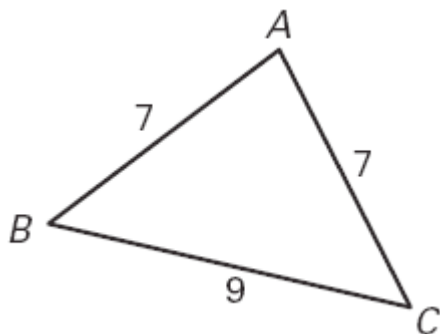


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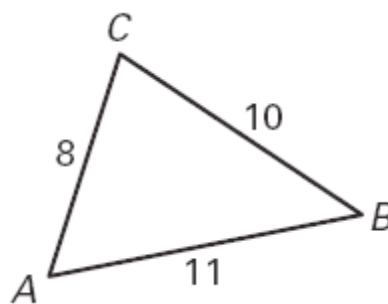


Name the smallest and largest angles of the triangle.

5.



6.

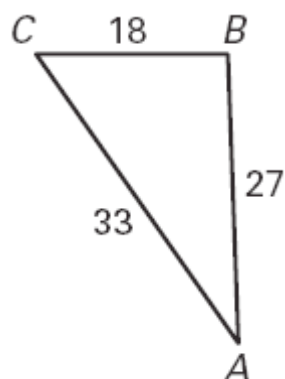


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Inequalities in one triangle

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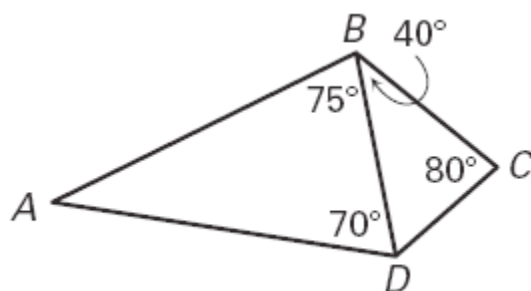
Name the smallest and largest angles of the triangle.

7.

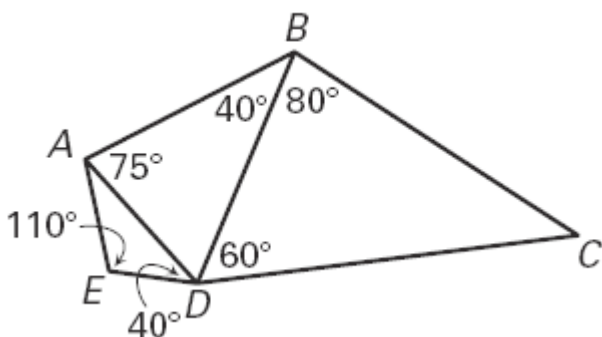


List the sides in order from shortest to longest.

8.



9.

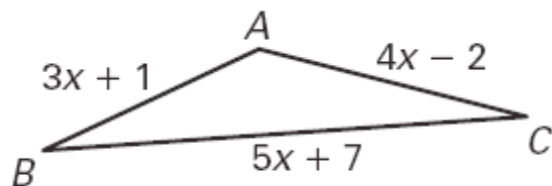


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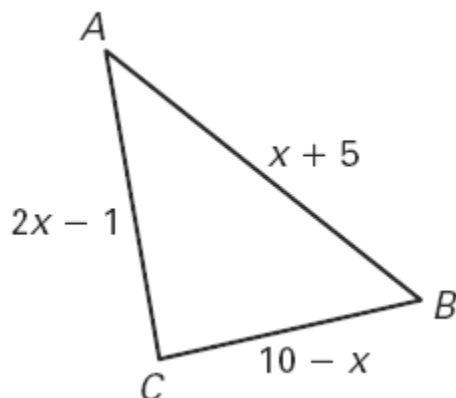
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Solve the inequality $AB + AC > BC$.

10.



11.



Find the possible measures for XY in triangle XYZ.

12. $XZ = 6$ & $YZ = 6$

13. $XZ = 9$ & $YZ = 5$

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14. Find the possible measures for XY in triangle XYZ . $XZ = 11$ & $YZ = 6$

15. You are asked to fence in a triangular playground. Two sides of the playground have lengths of 100 feet and 200 feet. What is the maximum total length of fence you could possibly need?

Review.

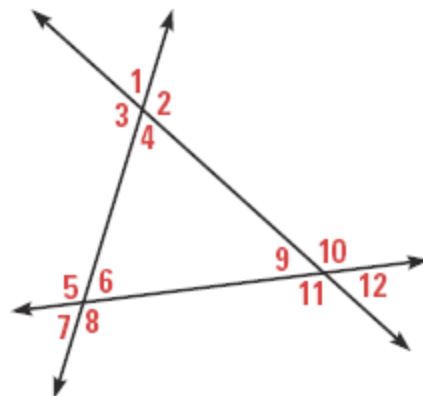
Complete each statement. (Chapter 3 Section 1)

16. $\angle 5$ & ____ are corresponding angles. So are $\angle 5$ and ____.

17. $\angle 12$ and ____ are vertical angles.

18. $\angle 6$ and ____ are alternate interior angles, So are $\angle 6$ and ____.

19. $\angle 7$ and ____ are alternate exterior angles. So are $\angle 7$ and ____.



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Inequalities in one triangle

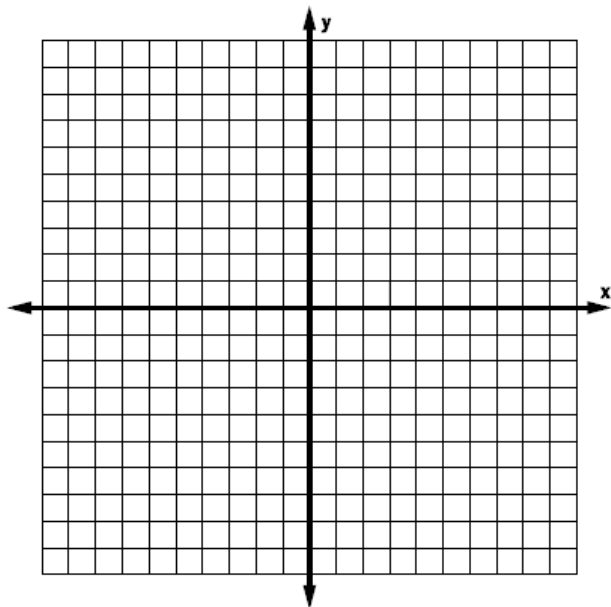
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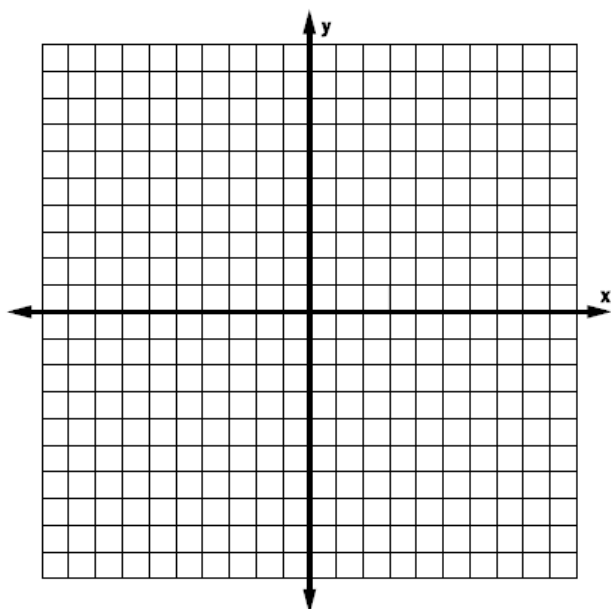
You are given the coordinates of the midpoints of the sides of a triangle. Find the coordinates of the vertices of the triangle.

(Chapter 5 Section 4)

20. $L(-2, -1)$, $M(2, 3)$, $N(3, -1)$



21. $L(-3, 5)$, $M(-2, 2)$, & $N(-6, 0)$



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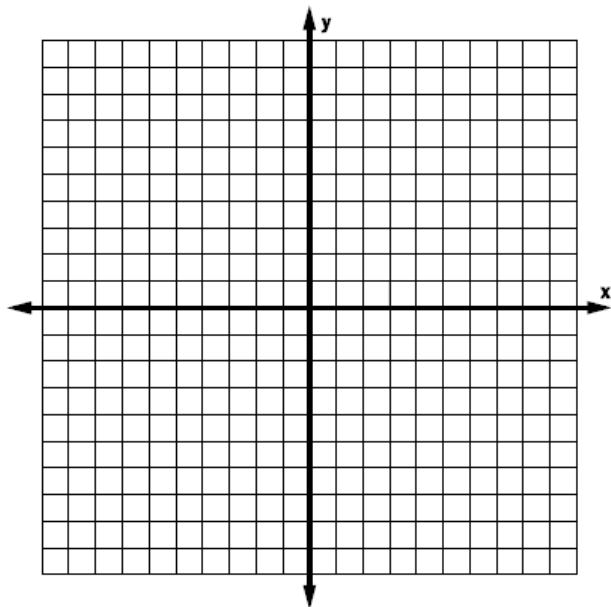
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You are given the coordinates of the midpoints of the sides of a triangle. Find the coordinates of the vertices of the triangle.

(Chapter 5 Section 4)

23. L(3, 6), M(9, 5), & N(8, 1)



24. L(3, -2), M(0, -4) & N(3, -6)

